

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/064061 A1(51) International Patent Classification⁷: **D04H 3/00,**
3/04, 3/14(21) International Application Number:
PCT/KR2003/002906(22) International Filing Date:
30 December 2003 (30.12.2003)

(25) Filing Language: Korean

(26) Publication Language: English

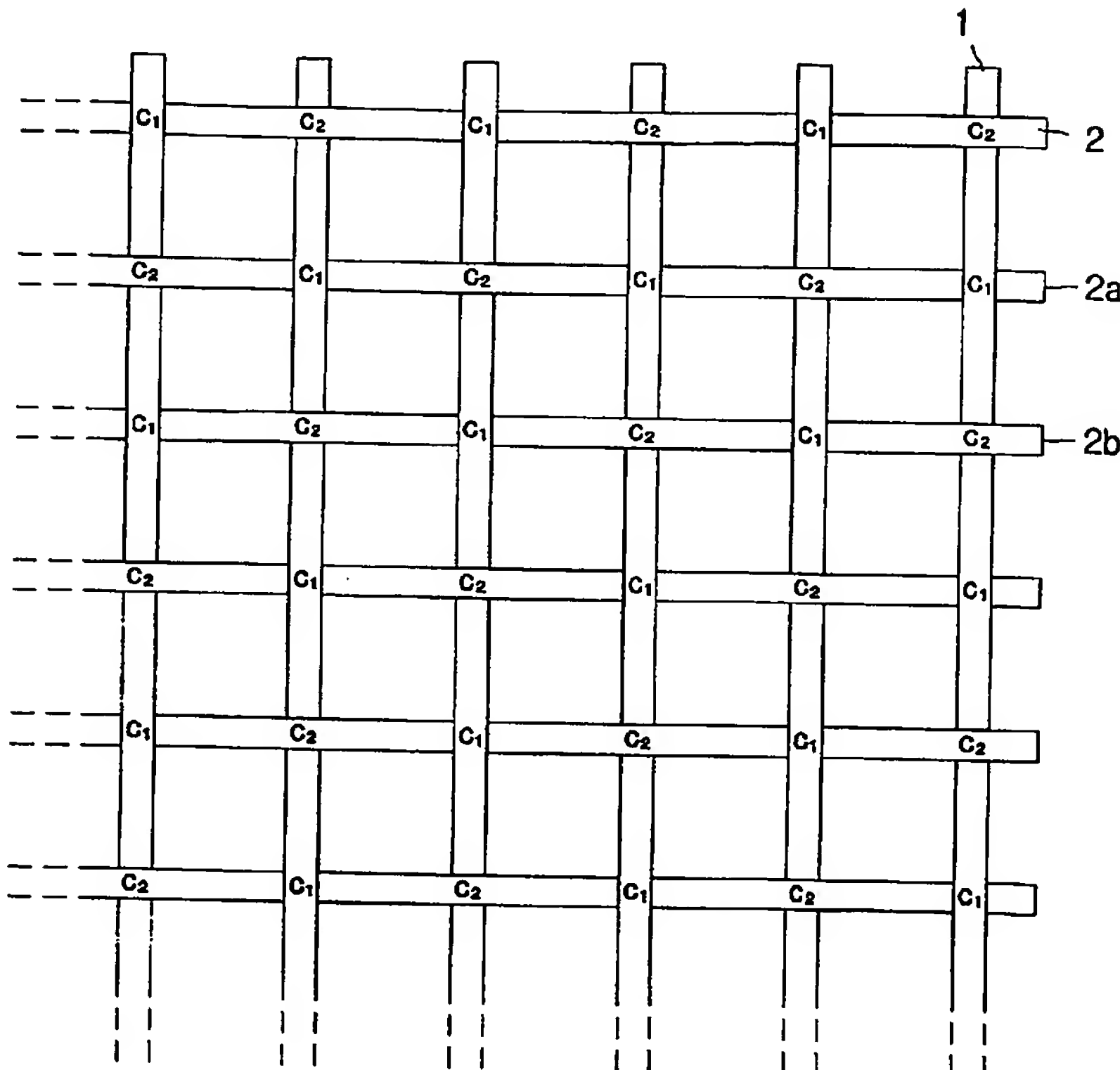
(71) Applicant (for all designated States except US):
SAMYANG CORPORATION [KR/KR]; 263,
Yeonji-dong, Jongro-gu, 110-725 Seoul (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YUN, Kwang-Jung**
[KR/KR]; 201 Yuseong Yeollip, 526-24 Bongmyeong-
dong, Yuseong-gu, 305-301 Daejeon (KR). **CHO,****Seong-Ho** [KR/KR]; 101-1105 Chonggu Apt., Jeon-
min-dong, Yuseong-gu, 305-729 Daejeon (KR). **CHA,**
Dong-Hwan [KR/KR]; 112-1401 Hanmaeul Apt., Song-
gang-dong, Yuseong-gu, 305-756 Daejeon (KR). **CHOI,**
Se-Whan [KR/KR]; 101-1002 Dungji Apt., Dunsan
2-dong, Seo-gu, 302-734 Daejeon (KR).(74) Agents: **LEE, Sang-Yong** et al.; 4F., Byukcheon Bldg.,
1597-5, Seocho-dong, Seocho-gu, 137-876 Seoul (KR).(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO,
CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,
GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,
KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (*regional*): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: A GEOGRID COMPOSED OF FIBER-REINFORCED POLYMERIC STRIP AND METHOD FOR PRODUCING THE SAME



(57) Abstract: A geogrid using fiber-reinforced polymeric strips and its producing method are disclosed. The geogrid of a lattice shape includes plural longitudinal fiber-reinforced polymeric strips longitudinally arranged in parallel at regular intervals and formed by reinforcing fiber in a thermoplastic polymer resin, and plural lateral fiber-reinforced polymer strip laterally arranged in parallel at regular intervals and formed by reinforcing fiber in a thermoplastic polymer resin. Each longitudinal fiber-reinforced polymer strip has at least one first contact point crossed with the lateral fiber-reinforced polymer strip on the upper surface and at least one second contact point crossed with the lateral fiber-reinforced polymer strips on the lower surface. The contact points are fixed by welding the longitudinal and lateral fiber-reinforced polymer strips. The geogrid is excellent in installation capacity, frictional feature and shape stabilisation and shows high tensile strength and low tensile strain and low creep deformation.



Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*